

Title (en)
COMPOUND FOR AN ORGANIC PHOTOELECTRIC DEVICE, AND ORGANIC PHOTOELECTRIC DEVICE COMPRISING SAME

Title (de)
VERBINDUNG FÜR EINE ORGANISCHE PHOTOELEKTRISCHE VORRICHTUNG UND ORGANISCHE PHOTOELEKTRISCHE VORRICHTUNG DAMIT

Title (fr)
COMPOSÉ POUR DISPOSITIF PHOTOÉLECTRIQUE ORGANIQUE ET DISPOSITIF PHOTOÉLECTRIQUE ORGANIQUE EN CONTENANT

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Application
EP 10828469 A 20101029

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Abstract (en)
[origin: WO2011055934A2] The present invention relates to a compound for an organic photoelectric device and to an organic photoelectric device comprising same. The compound for an organic photoelectric device is expressed in chemical formula 1, wherein the definitions of Ar1 to Ar4 and R1 to R4 are the same as those specified in the description. An organic photoelectric device having superior thermal/electrochemical stability and efficiency and an extended lifespan can be provided using the above-described compound for an organic photoelectric device.

IPC 8 full level
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Citation (search report)
• [X] EP 1970976 A1 20080917 - KONICA MINOLTA HOLDINGS INC [JP]
• [X] JP H083547 A 19960109 - TORAY INDUSTRIES
• [XI] WO 2007119816 A1 20071025 - KONICA MINOLTA HOLDINGS INC [JP], et al
• [XI] JP 2008135498 A 20080612 - TORAY INDUSTRIES
• [XI] WO 2009060779 A1 20090514 - KONICA MINOLTA HOLDINGS INC [JP], et al
• [X] US 2002045061 A1 20020418 - HOSOKAWA CHISHIO [JP]
• [X] VAITKEVICIENE V ET AL: "Well-defined [3,3']bicarbazolyl-based electroactive compounds for optoelectronics", SYNTHETIC METALS, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 158, no. 8-9, 15 April 2008 (2008-04-15), pages 383 - 390, XP022732268, ISSN: 0379-6779, [retrieved on 20080415], DOI: 10.1016/J.SYNTHMET.2008.02.013
• [XI] PETERN.M. BOTMAN ET AL: "Synthesis, Properties and Applications of BICAP: a New Family of Carbazole-Based Diphosphine Ligands", ADVANCED SYNTHESIS & CATALYSIS, vol. 346, no. 7, 19 July 2004 (2004-07-19), pages 743 - 754, XP055073634, ISSN: 1615-4150, DOI: 10.1002/adsc.200303241
• See also references of WO 2011055934A2

Cited by
WO2023208899A1; EP2688120A4; EP2674418A4; EP2471771A4; US9537107B2; US9450193B2; US9732036B2; US9496508B2; US9818958B2; US10230057B2; EP2423209B1; US10069081B2; US10910564B2; US11716902B2; US9478755B2; US10147888B2; US10147889B2; US11271171B2; US11552256B2; US11800799B2; US8865323B2; US8877352B2; US8940414B2; US10193077B2; EP2415769A1; EP2423209A1

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